```
EEEEEEEEEE  XX      XX    AAAAAA    MM      MM  PPPPPPPP    LL          EEEEEEEEEE    SSSSSSSS
EEEEEEEEEE  XX      XX    AAAAAA    MM      MM  PPPPPPPP    LL          EEEEEEEEEE    SSSSSSSS
EEEEEEEEEE  XX      XX    AAAAAA    MM      MM  PPPPPPPP    LL          EEEEEEEEEE    SSSSSSSS
EE          XX      XX   AA    AA   MMMM  MMMM  PP      PP  LL          EE          SS
EE          XX      XX   AA    AA   MMMM  MMMM  PP      PP  LL          EE          SS
EE          XX      XX   AA    AA   MMMM  MMMM  PP      PP  LL          EE          SS
EE            XX  XX     AA    AA   MM  MM  MM  PP      PP  LL          EE          SS
EE            XX  XX     AA    AA   MM  MM  MM  PP      PP  LL          EE          SS
EE            XX  XX     AA    AA   MM  MM  MM  PP      PP  LL          EE          SS
EEEEEEEE        XX       AA    AA   MM      MM  PPPPPPPP    LL          EEEEEEEE      SSSSSS
EEEEEEEE        XX       AA    AA   MM      MM  PPPPPPPP    LL          EEEEEEEE      SSSSSS
EEEEEEEE        XX       AA    AA   MM      MM  PPPPPPPP    LL          EEEEEEEE      SSSSSS
EE            XX  XX     AAAAAAAAAA MM      MM  PP          LL          EE                  SS
EE            XX  XX     AAAAAAAAAA MM      MM  PP          LL          EE                  SS
EE            XX  XX     AAAAAAAAAA MM      MM  PP          LL          EE                  SS
EE          XX      XX   AA    AA   MM      MM  PP          LL          EE                  SS
EE          XX      XX   AA    AA   MM      MM  PP          LL          EE                  SS
EE          XX      XX   AA    AA   MM      MM  PP          LL          EE                  SS
EE          XX      XX   AA    AA   MM      MM  PP          LL          EE                  SS
EE          XX      XX   AA    AA   MM      MM  PP          LL          EE                  SS
EEEEEEEEEE  XX      XX   AA    AA   MM      MM  PP          LLLLLLLLLL  EEEEEEEEEE  SSSSSSSS
EEEEEEEEEE  XX      XX   AA    AA   MM      MM  PP          LLLLLLLLLL  EEEEEEEEEE  SSSSSSSS
EEEEEEEEEE  XX      XX   AA    AA   MM      MM  PP          LLLLLLLLLL  EEEEEEEEEE  SSSSSSSS
```

FILEID**XATEST

```
XX      XX    AAAAAA    TTTTTTTTTT  EEEEEEEEEE    SSSSSSSS  TTTTTTTTTT
XX      XX    AAAAAA    TTTTTTTTTT  EEEEEEEEEE    SSSSSSSS  TTTTTTTTTT
XX      XX   AA    AA       TT      EE            SS            TT
XX      XX   AA    AA       TT      EE            SS            TT
  XX  XX     AA    AA       TT      EE            SS            TT
  XX  XX     AA    AA       TT      EE            SS            TT
    XX       AA    AA       TT      EEEEEEEE        SSSSSS      TT
    XX       AA    AA       TT      EEEEEEEE        SSSSSS      TT
  XX  XX     AAAAAAAAAA     TT      EE                    SS    TT
  XX  XX     AAAAAAAAAA     TT      EE                    SS    TT
XX      XX   AA    AA       TT      EE                    SS    TT          ....
XX      XX   AA    AA       TT      EE                    SS    TT          ....
XX      XX   AA    AA       TT      EEEEEEEEEE  SSSSSSSS        TT          ....
XX      XX   AA    AA       TT      EEEEEEEEEE  SSSSSSSS        TT          ....

FFFFFFFFFF     000000    RRRRRRRR
FFFFFFFFFF     000000    RRRRRRRR
FF           00      00  RR      RR
FF           00      00  RR      RR
FF           00      00  RR      RR
FF           00      00  RR      RR
FFFFFFFF     00      00  RRRRRRRR
FFFFFFFF     00      00  RRRRRRRR
FF           00      00  RR  RR
FF           00      00  RR  RR
FF           00      00  RR    RR
FF           00      00  RR    RR
FF             000000    RR      RR
FF             000000    RR      RR
```

```
C       Version 'V04-000'
C
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C*****************************************************************************
C
c
c Test program for DR11-W driver
c LINK MODE test
c
c Requires XADRIVER to be in LINK mode via SET CHARACTERISTICS function
c Requires two DR-11W's to be used, one for transmitt, one for receive.
c They must be configured and cabled in Link Mode.
c
c The logical name "DEVICE" must be assigned to the DR11-W to be used.
c For example: ASSIGN XAA0: DEVICE
c
c Either transmitts or receives a message between two DR11-W's.  Receiver
c checks data pattern for errors.
c
      integer*2 buffer(12000),iosb(10),xalink
      integer sys$assign,xamessage,sys$waitfr
c
c set up some initial variables
c
c  itime - timeout value for request
c  errcnt - total number of errors recorded
c  operat - total number of itterations complete
c  pass - print message every 100th itteration
c
      itime=5
      errcnt=0.
      operat=0.
      pass=0.
c
c assign channel to DR11-W
c
```

```
        istat=sys$assign('DEVICE',nchan,,)
        if(.not. istat)goto 100
c
c place xadriver in LINK mode for this channel
c
        istat=xalink(nchan)
        if(.not. istat)goto 150
c
c prompt for and read buffer size and transfer direction
c
        write(6,983)
983     format(' enter buffer size in words:',$)
        read(5,986)isize
986     format(i5)
        if(isize .le. 0 .or. isize .gt. 12000)isize=4000
        write(6,980)
980     format(' enter 1 for receive, 0 for transmit:',$)
        read(5,990)iwhere
990     format(i1)
c
c main loop, return here for each itteration
c
10      if(pass .lt. 100.)goto 211
        pass=0.
c
c print message every 100th itteration
c
        write(6,1111)operat,errcnt
1111    format(1x,f7.0,' passes completed  ',f7.0,' errors reported')
c
c initialize data buffer, depending on transfer direction
c if receive - zero buffer
c if transmitt - place known pattern in buffer
c
211     goto(15,11)iwhere+1
c
c receive - zero buffer
c
11      do 45 i=1,isize
        buffer(i)=0
45      continue
        goto 80
c
c transmitt - place incrementing pattern in buffer
c
15      do 77 i=1,isize
        buffer(i)=i
77      continue
c
c increment count of total operations and pass number
c
80      operat=operat+1.
        pass=pass+1.
c
c call xamessage routine to exchange data
c
```

```
        istat=xamessage(buffer,isize*2,iwhere,nchan,12,itime,iosb)
        if(.not. istat)goto 200
        istat=sys$waitfr(%val(12))
        if(.not. istat)goto 300
c
c check status of request
c
        if(iosb(1) .eq. 1 .and. iosb(5) .eq. 0) goto 60
c
c if error, print message, report status
c
50      errcnt=errcnt+1.
        write(6,1000)(iosb(i),i=1,4),iosb(5),iosb(7),iosb(9),operat,errcnt
1000    format(2(1x,i7),2(1x,z4),3(1x,i7),2(1x,f7.0))
c
c if receiver operation, then check buffer
c else, return for next itteration
c
60      if(iwhere .eq. 0)goto 10
        do 88 i=1,isize
        if(buffer(i) .ne. i)goto 560
88      continue
        goto 10
c
c error messages
c
100     write(6,1010)istat
1010    format(' error from assign  ',i8)
        call exit
150     write(6,1015)istat
1015    format(' error from xalink  ',i8)
        call exit
200     write(6,1020)istat
1020    format(' error from xamessage  ',i8)
        goto 50
300     write(6,1030)istat
1030    format(' error from waitfr  ',i8)
        goto 50
560     write(6,1040)i,buffer(i)
1040    format(' data compare error  ',2(2x,i4))
        goto 10
        end
```

XALINK
MAR

DRMASTER
FOR

LABIOLINK
COM

LPATEST
FOR

LABIOPEAK
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XAMESSAGE
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